

**QC ABSTRACT****NAME OF WORK:** Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
5	Block(400*150*200)	DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	21.27	6	6
7	GSB	SIEVE ANALYSIS	One Test		1	1
8	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1



9	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
10	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
11	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
12	TACK COAT	Rate of spread	One Test		1	1

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97



Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-12-19-52 Date: 01-10-20
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-09-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 29-09-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	—
2	Finess by Air permeability method (m ² /kg, Min)	297.3	225m ² /kg, Min
3	Density (gm/cc)	3.11	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate



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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-12-19-52 Date: 27-10-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple
Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-09-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 29-09-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
3	28 Days	55.5N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-19-52 Date: 01-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 28-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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S. R. S.



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-12-19-52

Date: 01-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	—
4	Bulk Density(Loose) (Kg/l)	1.39	—
5	Bulk Density(Compacted) (Kg/l)	1.46	—
6	Water Absorption(%)	0.22	—

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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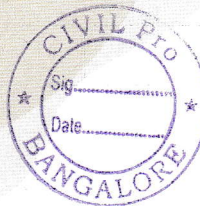
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-19-52 **Date:** 30-09-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-09-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 28-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-12-19-52

Date: 30-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	—
4	Bulk Density(Loose) (Kg/l)	1.41	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.28	—
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Technical Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-12-19-52 Date: 30-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 28-09-20

Total weight taken : 1000 grams

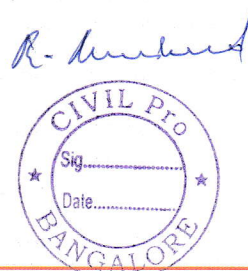
Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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J. S. S.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-12-19-52

Date: 30-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2020-12-19-52 Date: 13-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-20

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 10-10-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	405	150	201	12211	32.254	2641.5	2684.6	Not less than 1800Kg/m ³
2	405	148	199	11928	31.204	2616.0		
3	403	149	201	12069	33.751	2796.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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S. K. S.





Lab ID : CP-2020-12-19-52

Date: 13-10-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	152	201	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	399	153	202	
3	403	150	201	
4	402	152	200	
5	400	153	202	
6	399	151	199	
7	403	149	201	
8	404	151	200	
9	403	153	201	
10	402	152	201	
11	401	151	203	
12	402	151	199	
13	403	151	201	
14	401	153	203	
15	400	150	203	
16	404	151	200	
17	402	151	200	
18	404	150	203	
19	403	150	202	
20	402	151	199	
Average of 20	402	151	201	

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S. K. S.





Lab ID : CP-2020-12-19-52

Date: 13-10-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	152	60909	290.9	4.8	4.7
2	399	153	61097	285.7	4.7	
3	403	150	60628	285.1	4.7	
4	402	152	61009	284.3	4.7	
5	400	153	61067	288.3	4.7	
6	399	151	60423	283.9	4.7	
7	403	149	60123	287.2	4.8	
8	404	151	60886	282.7	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The results obtained are satisfactory as per standard requirements.

Note:

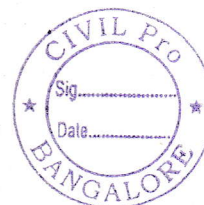
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-19-52 Date: 12/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-10-20

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Bed Concrete	M15	05/10/2020	12/10/2020	149.12 X 149.28 X 150.83	22261	8.148	274.6	12.3	12.4
2	Bed Concrete	M15	05/10/2020	12/10/2020	151.30 X 149.07 X 149.09	22555	8.351	281.7	12.5	
3	Bed Concrete	M15	05/10/2020	12/10/2020	149.77 X 150.45 X 151.41	22533	8.708	275.7	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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R. R. R.



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R. Rudraprasad
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-19-52 Date: 02/11/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-10-20

Customer ID : Bed Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Bed Concrete	M15	05/10/2020	02/11/2020	151.74 X 150.51 X 151.82	22839	8.197	400.0	17.5	17.7
2	Bed Concrete	M15	05/10/2020	02/11/2020	151.97 X 149.14 X 151.90	22665	8.969	404.6	17.9	
3	Bed Concrete	M15	05/10/2020	02/11/2020	149.75 X 151.47 X 149.49	22682	8.953	399.9	17.6	

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Technical Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-19-52 Date: 15/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	08/10/2020	15/10/2020	150.35 X 149.96 X 151.78	22547	8.148	275.9	12.2	12.3
2	Copping Concrete	M15	08/10/2020	15/10/2020	151.29 X 150.30 X 149.21	22739	8.351	277.0	12.2	
3	Copping Concrete	M15	08/10/2020	15/10/2020	150.33 X 149.29 X 149.66	22443	8.708	279.4	12.4	

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R RUDRAPRASAD
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Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-19-52 Date: 05/11/2020

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	08/10/2020	05/11/2020	151.34 X 151.25 X 151.07	22891	8.197	406.6	17.8	17.4
2	Copping Concrete	M15	08/10/2020	05/11/2020	151.74 X 151.47 X 150.33	22984	8.969	391.6	17.0	
3	Copping Concrete	M15	08/10/2020	05/11/2020	149.30 X 149.68 X 149.11	22347	8.953	389.4	17.4	

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Lab ID : CP-2020-12-19-52 Date: 15/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-10-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	08/10/2020	15/10/2020	149.64 X 149.18 X 150.95	22324	8.148	277.7	12.4	12.6
2	Copping Concrete	M15	08/10/2020	15/10/2020	149.57 X 149.53 X 149.19	22365	8.351	273.5	12.2	
3	Copping Concrete	M15	08/10/2020	15/10/2020	150.01 X 150.61 X 151.16	22592	8.708	293.5	13.0	

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-19-52 Date: 05/11/2020
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer's Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-10-20
Customer ID : Copping Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 05/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Copping Concrete	M15	08/10/2020	05/11/2020	150.20 X 151.70 X 149.04	22786	8.197	390.0	17.1	17.4
2	Copping Concrete	M15	08/10/2020	05/11/2020	149.16 X 151.43 X 149.77	22587	8.969	387.1	17.1	
3	Copping Concrete	M15	08/10/2020	05/11/2020	149.52 X 149.68 X 150.10	22381	8.953	400.8	17.9	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2020-12-19-52 Date: 13-11-20
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-11-20
Type of Mix : GSB (Granular Sub Base)
Date of test : 11-11-20
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

SI no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2020-12-19-52 Date: 19-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-11-20
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 17-11-20
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

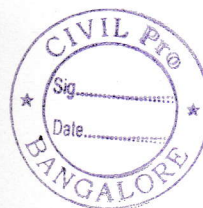
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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2020-12-19-52 Date: 19-11-20

Customer : Assistant Executive Engineer, Vidaranyapura Sub Division, BBMP, Bangalore.

Address : Vidaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphalting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-20

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 17-11-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

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R. Rudraprasad
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2020-12-19-52 **Date:** 19-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division,
BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra,
Krishna Temple Surrounding Areas in Ward No.09
(Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar,
Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-11-20
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 17-11-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2020-12-19-52 Date: 23-11-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-20

Type of Mix : BM-Plant (Bituminous Macadam)

Date of test : 21-11-20

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID : CP-RW-2020-12-19-52 Date: 24-11-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-11-20

Type of Mix : BM (Bituminous Macadam)

Date of test : 21-11-20

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

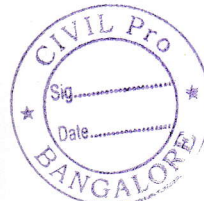
The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

**TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE
(IS:6241)**

Lab ID : CP-RW-2020-12-19-52 Date: 24-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-11-20
Type of Mix : BM(Bitumnous Macadam)
Date of test : 21-11-20
Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

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Authorized Signatory
Technical Manager

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****End of Report****



TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2020-12-19-52 **Date:** 24-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 21-11-20
Type of Mix : BM (Bituminous Mecadam)
Date of test : 21-11-20

The results of the tests conducted on the Bituminous Macadam mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	—

* The results obtained are satisfactory as per standard requirements.

Note:-

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Certificate No.: TC-5548

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2020-12-19-52 Date: 02-12-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Date of Receipt : 01-12-20
Type of Mix : BM (Bituminous Macadam)
Date of test : 01-12-20

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	483	482
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	3.4	3.60
4	Average percentage	%	3.50	

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Lab ID : CP-RW-2020-12-19-52

Date: 02-12-20

AFTER EXTRACTION(Trail-1)

Weight of Sample : 483 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.3	61.7	56-88
4.75	191	376	77.8	22.2	16-36
2.36	28	404	83.6	16.4	4-19
0.3	32	436	90.3	9.7	2-10
0.075	31	467	96.7	3.3	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 482 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.4	61.6	56-88
4.75	191	376	78.0	22.0	16-36
2.36	28	404	83.8	16.2	4-19
0.3	28	432	89.6	10.4	2-10
0.075	30	462	95.9	4.1	0-8

* The results obtained are satisfactory as per standard requirements.

Note:-

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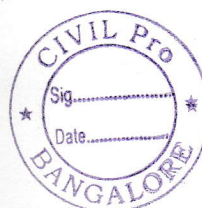
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Technical Manager



TEST RESULTS OF GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2020-12-19-52 Date: 27-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-11-20
Type of Mix : BC-Plant (Bituminous Concrete)
Date of test : 25-11-20
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

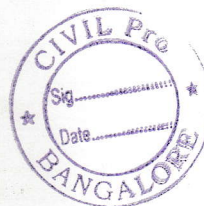
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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2020-12-19-52 Date: 28-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-11-20
Type of Mix : BC(Bitumenous Concrete)
Date of test : 25-11-20

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |



PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2020-12-19-52 Date: 28-11-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-11-20
Type of Mix : BC (Bituminous Concrete)
Date of test : 25-11-20

Table 500-16 : Physical Requirements for Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2020-12-19-52 Date: 28-11-20
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 25-11-20
Type of Mix : BC (Bituminous Concrete)
Date of test : 25-11-20

The results of the tests conducted on the Bituminous Concrete mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	—

* The results obtained are satisfactory as per standard requirements.

Note:-

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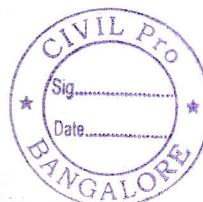
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Certificate No.: TC-5548

**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)**

Lab ID : CP-RW-2020-12-19-52 Date: 02-12-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple
Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Source of Sample : Sample supplied by Agency
Date of Receipt : 01-12-20
Type of Mix : BC (Bituminous Concrete)
Date of test : 01-12-20

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$ A	4.60	4.80
4	Average percentage	%	4.7	



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-2020-12-19-52

Date: 02-12-20

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	88	266	55.8	44.2	42-58
1.18	29	295	61.8	38.2	34-48
0.6	11	306	64.2	35.8	26-38
0.3	46	352	73.8	26.2	18-28
0.15	45	397	83.2	16.8	12-20
0.075	55	452	94.8	5.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2020-12-19-52 **Date:** 20-11-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidyaranyapura)

Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/118/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-20

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 18-11-20

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2020-12-19-52 Date: 02-12-20
Customer : Assistant Executive Engineer, Vidharanyapura Sub Division, BBMP, Bangalore.
Address : Vidharanyapura Sub Division, BBMP, Bangalore
Project Name : Improvements and Asphaltting to Roads at Doddabommasandra, Krishna Temple Surrounding Areas in Ward No.09 (Vidharanyapura)
Agency : Sri. Nataraj.T, No:02, 1st Main Amarjoythi Layout, R T Nagar, Bangalore-32
Customer Reference : BBMP/EE/BTP/WO/118/2020-21
Sample Condition : Satisfactory
Date of Receipt : 01-12-20
Type of Mix : Tack coat
Date of test : 01-12-20

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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